

FIG. 2 is a block diagram of a GERAN system architecture showing the interaction between a Mobile Station (MS) and a Serving GPRS Support Node (SGSN) via a Relay node. The MS (100) includes a PHY layer (100), MAC layer (102), RLC layer (104), and PDCP layer (106). The Relay node (120) includes a PHY layer (114), MAC layer (116), RLC layer (118), PDCP layer (122), and a BSSGP layer (124). The SGSN (150) includes a PHY layer (150), MAC layer (152), RLC layer (154), PDCP layer (156), BSSGP layer (158), GTP-U layer (160), and a Network Service layer (162). The diagram illustrates the flow of data and control signals between these components, including the use of the Um and Gb interfaces.

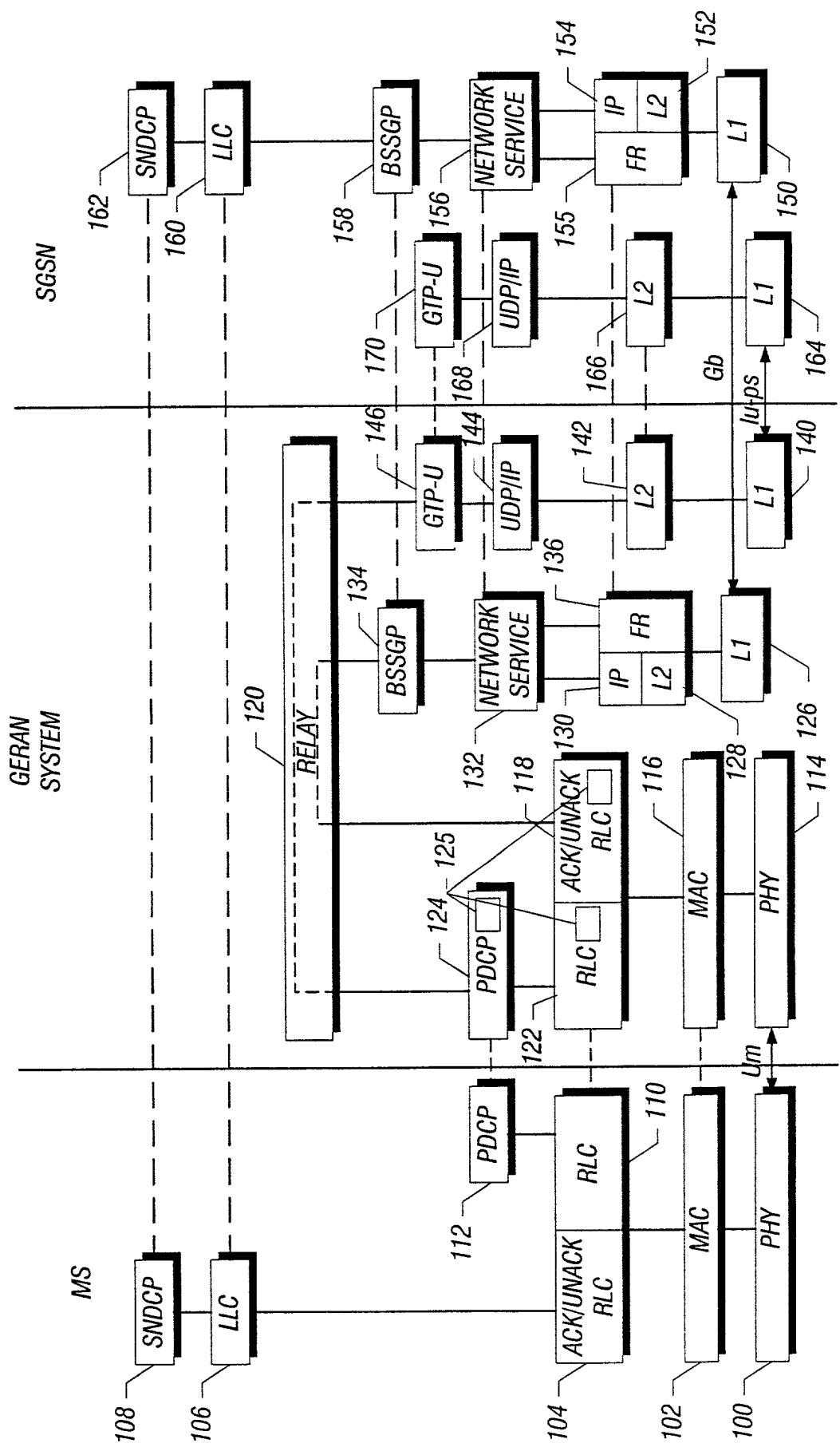


FIG. 2

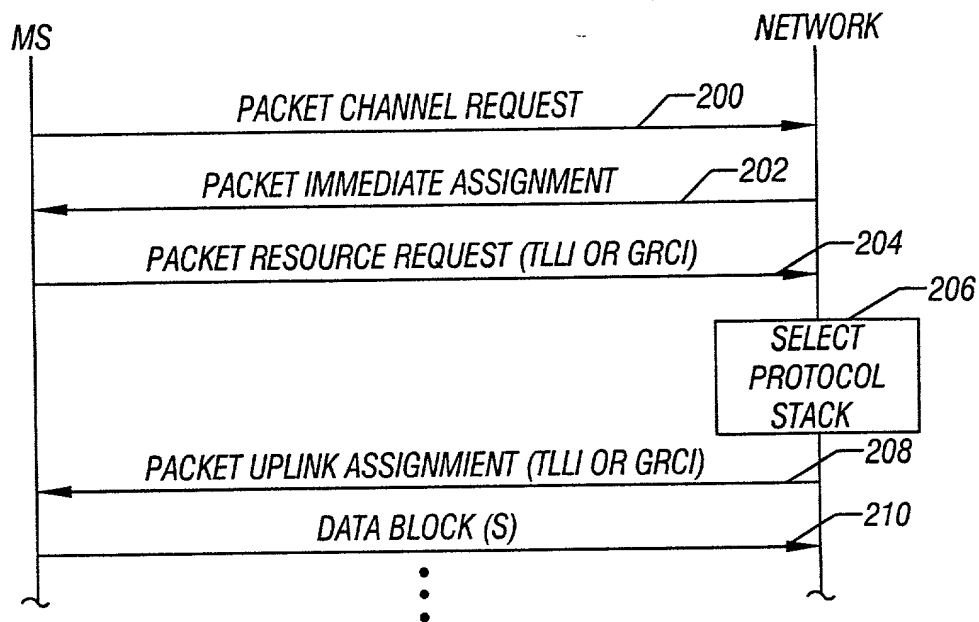


FIG. 3

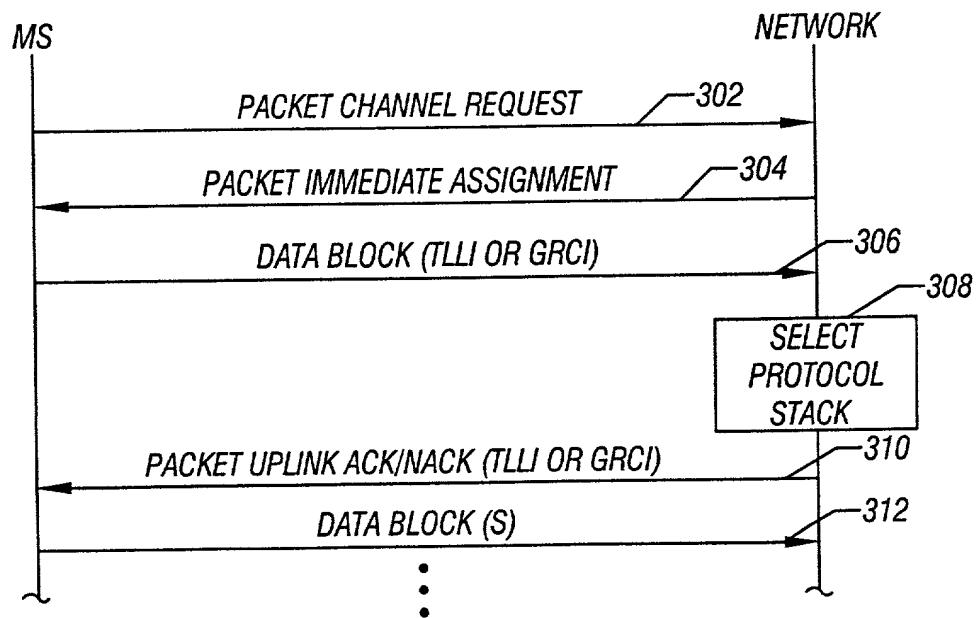


FIG. 4